

Emergency Vehicle Operator

Lesson 4-1:
Apparatus Inspection and Maintenance



Student Performance Objective

 After completing this lesson, the student shall be able to explain actions taken to appropriately conduct apparatus inspection and maintenance.
 In addition, students will be able to perform basic apparatus inspection and maintenance skills.

Overview

- Systematic Maintenance Program
- Documentation, Reporting, and Follow-Up
- Vehicle Cleanliness

Systematic Maintenance Program

 Every department should develop SOPs for systematic apparatus maintenance.

Compliance with NFPA® standards

Who? What? When?

Method for reporting, correcting, and documenting activities

Systematic Maintenance Program

 Apparatus maintenance responsibilities will vary by jurisdiction.



Driver/operators often fix minor deficiencies



Certified mechanics fix more complex problems

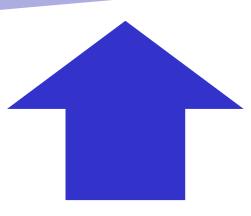
Systematic Maintenance Program

 Maintenance schedules vary by jurisdiction and differ based on staffing.



Maintenance check at the beginning of each tour of duty

Weekly or monthly detailed inspection





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Documentation, Reporting, and Follow up

 Each jurisdiction should establish inspection and maintenance policies.

Procedure for documentation and communication

Standardized written forms or computer programs

Filing system for storage, retrieval, and review of records

Inspection checklist for specific apparatus

Documentation, Reporting, and Follow up

 Driver/operators should follow established policy for documenting, reporting, and following up on repairs.

Discover needed repair

Notify supervisor

Take immediate action for serious issues











Document per policy

Follow up in reasonable amount of time

Documentation, Reporting, and Follow up

 Apparatus maintenance and inspection records serve several different functions.

Documentation for warranty claims

Evidence for accident investigators

Support for decisions to purchase or repair apparatus

 Cleanliness of apparatus and onboard equipment is an important part of any inspection and maintenance program.



Is easier to inspect

Clean apparatus

Promotes longer vehicle life

 Apparatus and equipment are easier to inspect if they are free of dirt and grime.

A clean engine permits proper inspection for leaks.

Diesel fuel leaves a gummy residue.

Linkages, fuel injectors, and other controls in the engine become inoperable due to the collection of dirt.

Mechanical defects are more obvious if the undercarriage is clean.

Components can be visualized more easily.

NOTE:

 While fuel injectors do not have external moving parts, they are still a source of collected dirt and oil. This area should be checked and cleaned.

 Over-cleaning the fire apparatus can have adverse effects.

Steam cleaning or high pressure washing

 Steam cleaning/high pressure washing may remove lubrication from chassis, engine, pump, and underbody

Wiring and connections

- Use caution when employing high pressure cleaning equipment near wiring and connections
- Perform routine lubrication on connections when necessary

 Driver/operators must ensure that the entire apparatus is clean and well maintained.











Student Performance Objective

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Review

- Systematic Maintenance Program
- Documentation, Reporting, and Follow-Up
- Vehicle Cleanliness